Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2018-07-25-06** **Date: 28-07-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa layout, Veeranapalya, Arabic college(P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/54/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-18

Sample ID No : 2018-07-25-06 /01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 26-07-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.15	–
2	Finess by Air permeablity method (m^2/kg,Min)	288	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	160 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.3mm	Not more than 10 mm

Note:

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-25-06** **Date: 23-08-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa layout, Veeranapalya, Arabic college(P), Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/54/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-18
Sample ID No	:	2018-07-25-06 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	26-07-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	30.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-25-06** **Date: 28-07-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa layout, Veeranapalya, Arabic college(P), Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/54/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	25-07-18
Sample ID No	:	2018-07-25-06 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-07-18

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore 97

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1215	1215	8.1	91.9	90-100
3	20 mm	5325	6540	43.6	56.4	30-70
4	10 mm	6250	12790	85.3	14.7	10-35
5	4.75 mm	1638	14428	96.2	3.8	0-5
6	Pan	572	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-25-06** **Date: 28-07-18**

Sample ID No : 2018-07-25-06 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.21	–

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-25-06** **Date: 28-07-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa layout, Veeranapalya, Arabic college(P), Bangalore-560045.
Customer Reference	:	BBMP/EE/BTP/WO/54/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-18
Sample ID No	:	2018-07-25-06 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-07-18

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP Bangalore - 97

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	429	429	8.6	91.4	90-100
3	10 mm	2440	2869	57.4	42.6	25-55
4	4.75 mm	1833	4702	94.0	6.0	0-10
5	Pan	298	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-25-06** **Date: 28-07-18**

Sample ID No : 2018-07-25-06 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.8**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.4**	
3	Specific Gravity	**2.59**	–
4	Bulk Density(Loose) (Kg/l)	**1.48**	–
5	Bulk Density(Compacted) (Kg/l)	**1.55**	–
6	Water Absorption(%)	**0.25**	–
7	Aggregate crushing Value(%)	**22.0**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.9**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-07-25-06** **Date: 28-07-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa layout, Veeranapalya, Arabic college(P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/54/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-18

Sample ID No : 2018-07-25-06 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

Date of test : 25-07-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	25	25	2.5	97.5	90-100	90-100	90-100	95-100
3	2.36 mm	127	152	15.2	84.8	60-95	75-100	85-100	95-100
4	1.18 mm	275	427	42.7	57.3	30-70	55-90	75-100	90-100
5	600 micron	137	564	56.4	43.6	15-34	35-59	60-79	80-100
6	300 micron	190	754	75.4	24.6	5-20	8-30	12-40	15-50
7	150 micron	154	908	90.8	9.2	0-10	0-10	0-10	0-15
8	Pan	92	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-07-25-06** **Date: 28-07-18**

Sample ID No : 2018-07-25-06 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.7	_
2	Specific Gravity	2.6	_
3	Material finer than 75 micron(%)	7.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-07-25-06** **Date: 27-07-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa layout, Veeranapalya, Arabic college(P), Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/54/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-18
Sample ID No	:	2018-07-25-06 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	26-07-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.394	537	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.618	549	655	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	564	674	19.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-02-01** **Date: 07/08/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa layout, Veeranapalya, Arabic college(P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/54/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-08-18

Sample ID No : 2018-08-02-01 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	31/07/2018	07/08/2018	149.37 X 151.98 X 149.38	22702	8.076	285.3	12.6	12.6
2	PCC	M15	31/07/2018	07/08/2018	149.10 X 149.87 X 151.45	22347	8.210	272.3	12.2	
3	PCC	M15	31/07/2018	07/08/2018	151.61 X 149.48 X 151.29	22662	8.371	293.4	12.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-02-01** **Date: 14/08/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa layout, Veeranapalya, Arabic college(P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/54/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-08-18

Sample ID No : 2018-08-02-01 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 14 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	31/07/2018	14/08/2018	151.66 X 150.74 X 149.11	22861	8.549	324.6	14.2	14.6
2	PCC	M15	31/07/2018	14/08/2018	150.10 X 150.20 X 149.66	22546	8.483	329.2	14.6	
3	PCC	M15	31/07/2018	14/08/2018	150.43 X 151.75 X 150.77	22827	8.375	344.7	15.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-08-06-02** **Date: 10/08/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa layout, Veeranapalya, Arabic college(P), Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/54/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-08-18
Sample ID No	:	2018-08-06-02 /01
Customer ID	:	RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	03/08/2018	10/08/2018	151.92 X 149.56 X 150.33	22721	8.434	388.5	17.1	17.1
2	RMC	M20	03/08/2018	10/08/2018	149.37 X 151.12 X 149.76	22573	8.377	390.5	17.3	
3	RMC	M20	03/08/2018	10/08/2018	151.54 X 150.73 X 150.06	22841	8.031	386.0	16.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-06-02** **Date: 17/08/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Nanjappa Layout in Ward No.10 (Doddabommasandra),

Agency : Sri.Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa layout, Veeranapalya, Arabic college(P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/54/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-08-18

Sample ID No : 2018-08-06-02 /02

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 14 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	03/08/2018	17/08/2018	149.31 X 151.75 X 149.16	22658	8.554	435.0	19.2	19.1
2	RMC	M20	03/08/2018	17/08/2018	150.11 X 151.16 X 149.83	22691	8.459	428.9	18.9	
3	RMC	M20	03/08/2018	17/08/2018	149.12 X 151.52 X 149.71	22594	8.235	431.6	19.1	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-06-02 **Date: 10/08/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Nanjappa Layout in Ward No.10 (Doddabommasandra),

Agency : Sri.Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa layout, Veeranapalya, Arabic college(P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/54/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-08-18

Sample ID No : 2018-08-06-02 /03

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	03/08/2018	10/08/2018	149.28 X 149.03 X 150.80	22247	8.425	391.5	17.6	17.8
2	RMC	M20	03/08/2018	10/08/2018	150.88 X 149.74 X 149.28	22592	7.989	402.1	17.8	
3	RMC	M20	03/08/2018	10/08/2018	150.32 X 150.14 X 151.66	22568	8.069	408.5	18.1	

Note:

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-06-02** **Date: 17/08/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.Gopireddy, #03, 1st Cross, 1st Main, Ramachandrappa layout, Veeranapalya, Arabic college(P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/54/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-08-18

Sample ID No : 2018-08-06-02 /04

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 14 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	03/08/2018	17/08/2018	150.26 X 149.68 X 149.72	22490	8.212	440.8	19.6	19.3
2	RMC	M20	03/08/2018	17/08/2018	150.12 X 151.50 X 150.13	22743	8.016	441.2	19.4	
3	RMC	M20	03/08/2018	17/08/2018	150.73 X 149.10 X 151.41	22474	8.249	422.5	18.8	

Note:
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-91

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****